## NRR-PMDAPEm Resource

**From:** Kim, James
**Sent:** Tuesday, September 30, 2014 3:36 PM
**To:** 'Couture III, Philip' (pcoutur@entergy.com)
**Subject:** Vermont Yankee RAI - Defueld E-Plan and EAL Scheme Changes (TAC No. MF4279)

Mr. Couture,

The Nuclear Regulatory Commission staff is reviewing the submittal and has determined that additional information is needed to complete its review. The specific request for additional information (RAI) question is shown below. Based on our discussions we understand that a response to the RAI will be provided October 31, 2014.

Jim Kim
NRR/DORL
Vermont Yankee PM
301-415-4125

**REQUEST FOR ADDITIONAL INFORMATION**

**ENTERGY NUCLEAR OPERATIONS, INC.**

**PERMANENTLY DEFUELED EMERGENCY PLAN AMENDMENT REQUEST**

**DOCKET NO. 50-271**

**TAC MF4279**

By letter dated June 12, 2014 (Agency-wide Documents Access and Management System (ADAMS) Accession No. ML14168A302), Entergy Nuclear Operations, Inc. (ENO) requested an amendment to the renewed operating license for the Vermont Yankee Nuclear Power Station (VY). The proposed amendment would revise the VY Radiological Emergency Response Plan and the Emergency Action Level scheme for the permanentlyl defueled condition. The amendment was predicated, in part, on the approval of ENO requested exemptions from certain emergency plan requirements of 10 CFR 50.47(b), 10 CFR 50.47(c)(2), and Section IV to Appendix E of 10 CFR 50 (ADAMS Accession No. ML14080A141). The license amendment request referenced analyses included in the exemption request, which showed that the spent fuel stored in the spent fuel pool will have decayed sufficiently to satisfy regulatory criteria for reduced-scope emergency planning 15.4 months after final shutdown of the reactor. Following review of the amendment request, the staff has determined that the following additional information is necessary to complete the staff's technical review:

**RAI-01:**

Attachement 2 to the Exemption Request letter dated March 14, 2014, contains an analysis of the maximum cladding temperature for uncovered fuel with no air cooling. This analysis included calculated times to reach specific cladding temperatures that were determined by dividing the thermal capacity of a single fuel assembly by a bounding estimate of the maximum rate of heat generation within a single assembly. The bounding heat generation rate was taken from Sargent & Lundy Calculation 2013-13824, "Decay Heat Rate Analysis for a Bounding Discharged Fuel Assembly,"

Rev. 0. Please either provide this calculation or describe the key inputs, assumptions, and decay heat model used to determine the bounding heat generation rate of a single assembly.

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**Created By:** James.Kim@nrc.gov

**Recipients:**
"'Couture III, Philip' (pcoutur@entergy.com)" <pcoutur@entergy.com>
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